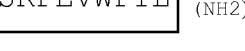


Fig. 1A

SUS1 SEQ ID NO: 2		native
SUS2 SEQ ID NO: 3		native
SS2 SEQ ID NO: 10		active
SS11 SEQ ID NO: 11		inactive
SS12 SEQ ID NO: 12		active
SS15 SEQ ID NO: 13		less active
SS16 SEQ ID NO: 14		less active
SP3 SEQ ID NO: 18		inactive
NR11 SEQ ID NO: 15		inactive
SP26 SEQ ID NO: 16		inactive
SS1 SEQ ID NO: 9	GDRVLSRLHSVVRERIGK	inactive
ACTIN SEQ ID NO: 19		consensus

Double basic cluster: black box; e.g. 

Possible region of specificity: underlined or boxed

Substitutions: bold

Fig. 1B

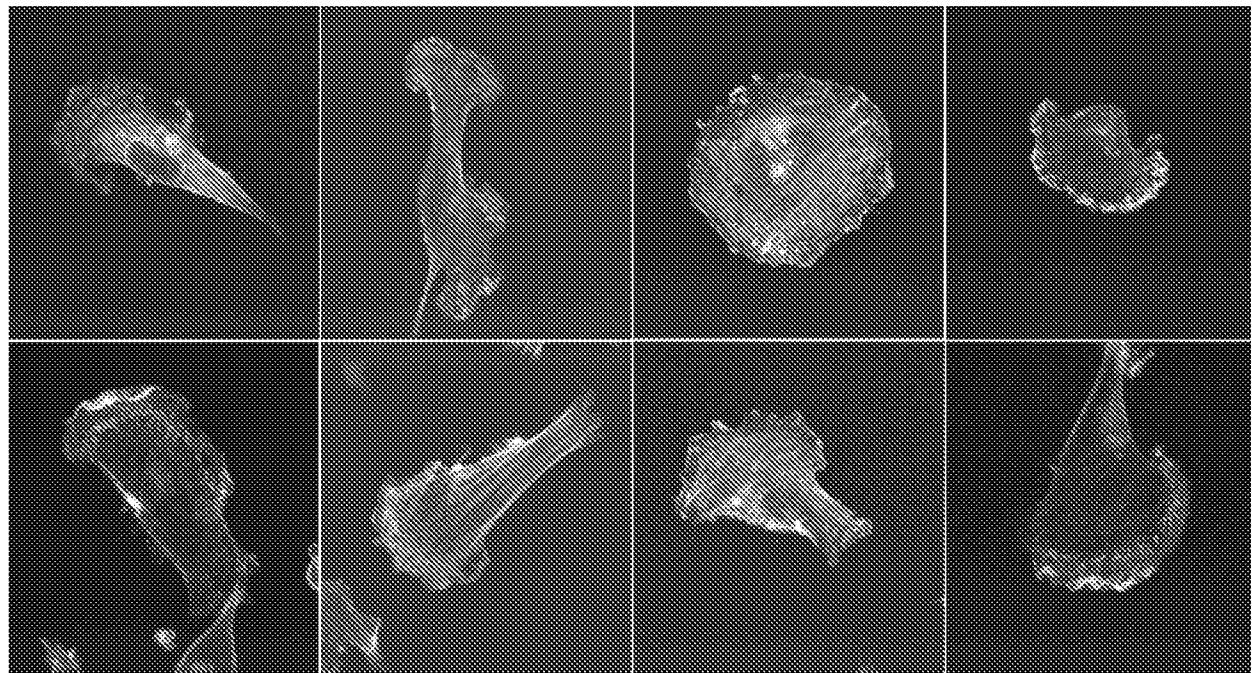
EN
 GIVRK
 WI
 SRFEVW
 PYL
 KK

X_4 X_3 X_2 X_1 X_5 X_6

SEQ ID NO.		SEQUENCE
SEQ ID NO:22	X_1	SRFEVW
SEQ ID NO:17	X_2-X_1	WI SRFEVW
SEQ ID NO:14	X_1-X_5	SRFEVW PYL
SEQ ID NO:23	$X_2-X_1-X_5-X_6$	WI SRFEVW PYLKK
SEQ ID NO:12	$X_3-X_2-X_1-X_5$	GIVRK WI SRFEVW PYL
SEQ ID NO:10	$X_3-X_2-X_1-X_5-X_6$	GIVRK WI SRFEVW PYL KK
SEQ ID NO:24	$X_4-X_3-X_2-X_1-X_5-X_6$	E N GIVRK WI SRFEVW PYL KK

Fig. 2

A



B

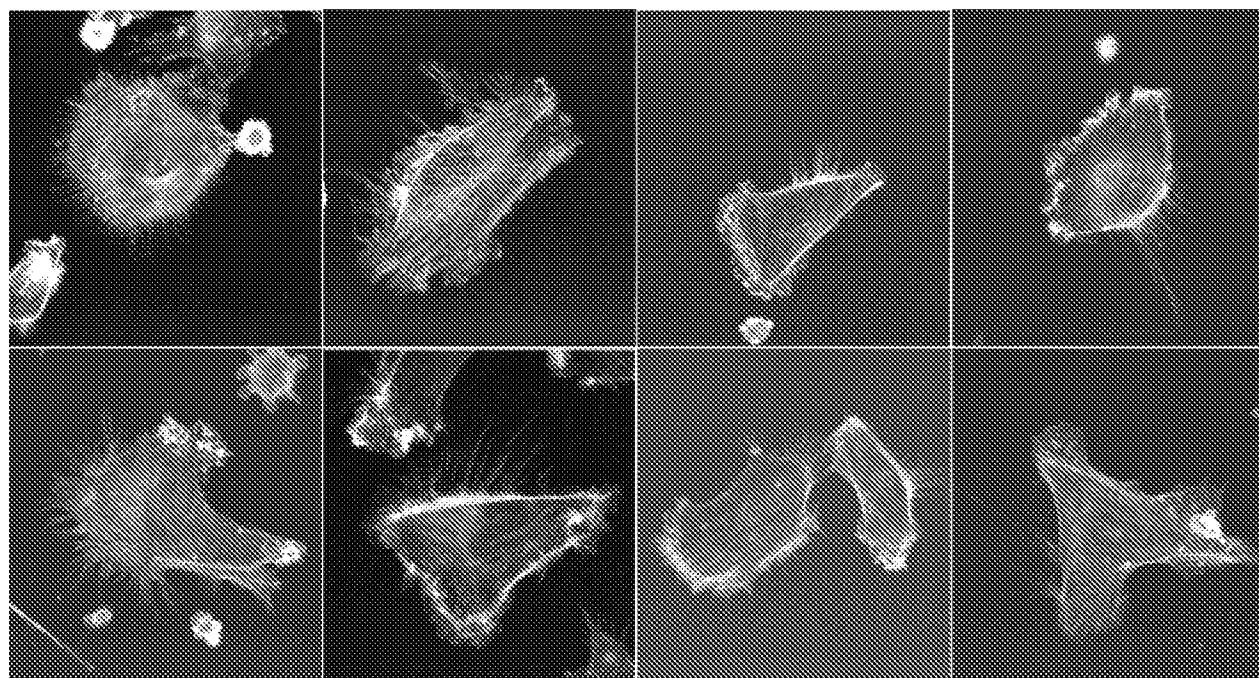


Fig. 3

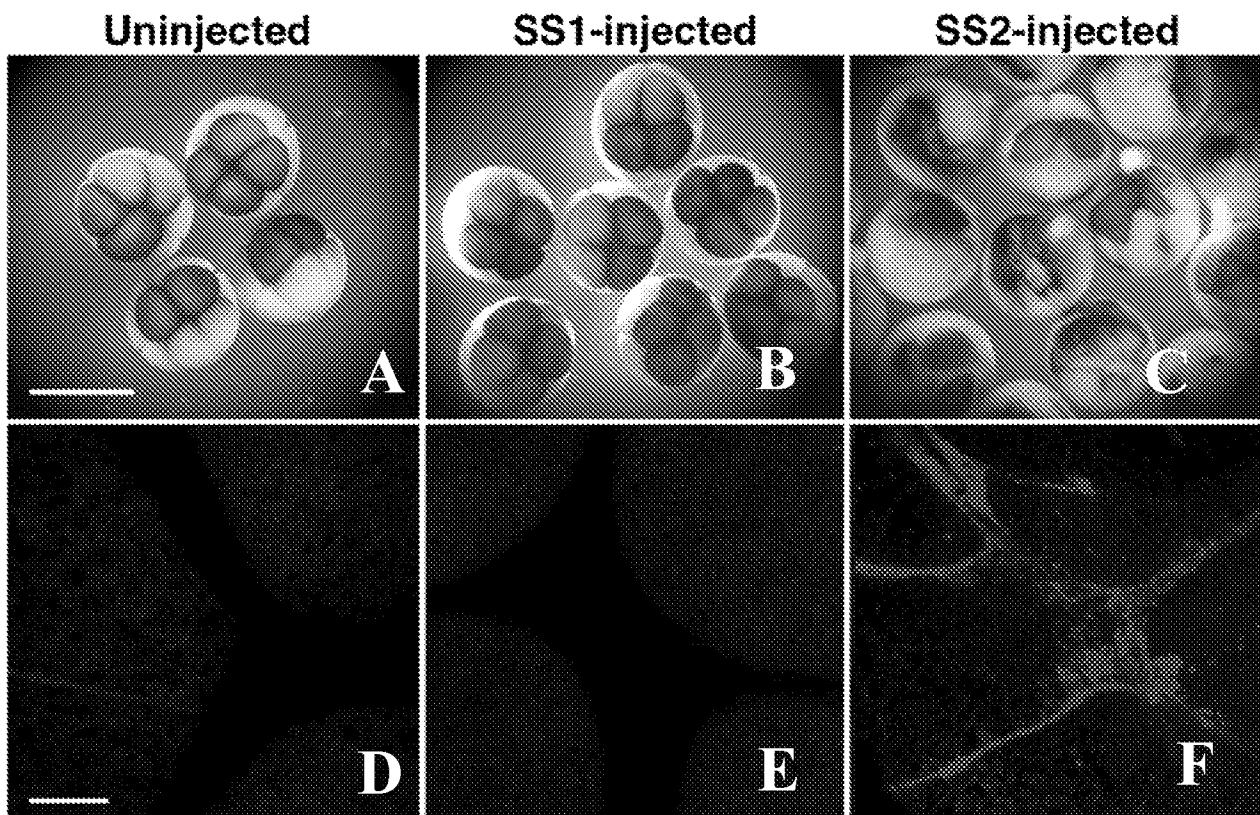
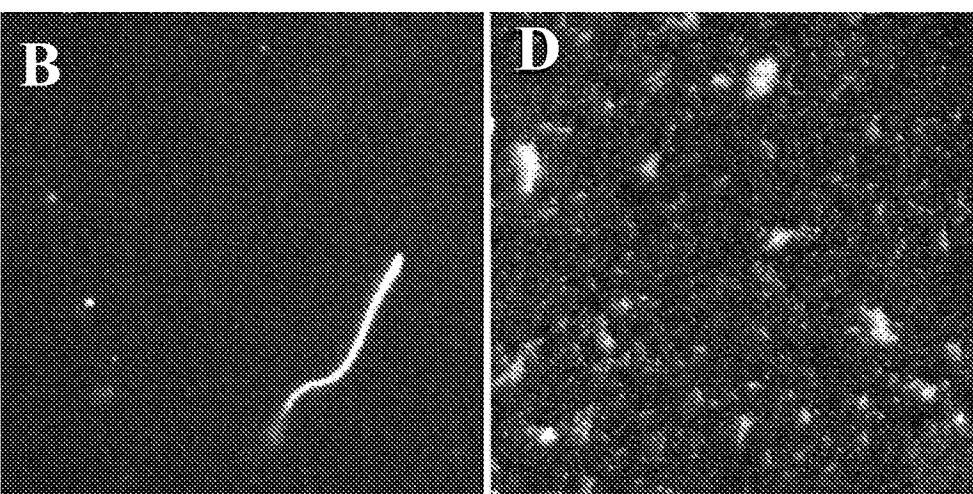
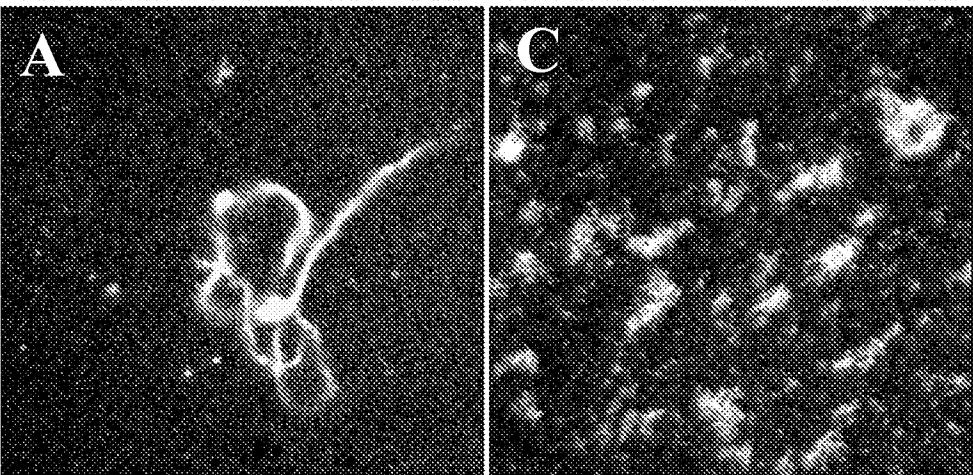


Fig. 4

Xenopus cytoplasmic extracts

Rhodamine-actin + PMA - SS2 Rhodamine-actin + PMA + SS2



Rhodamine-actin + PMA - SS12

Rhodamine-actin + PMA + SS12

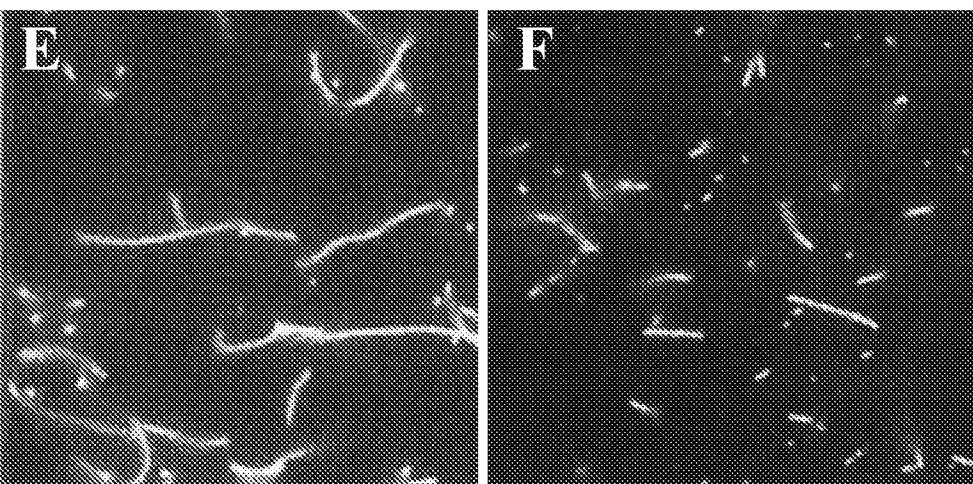


Fig. 5

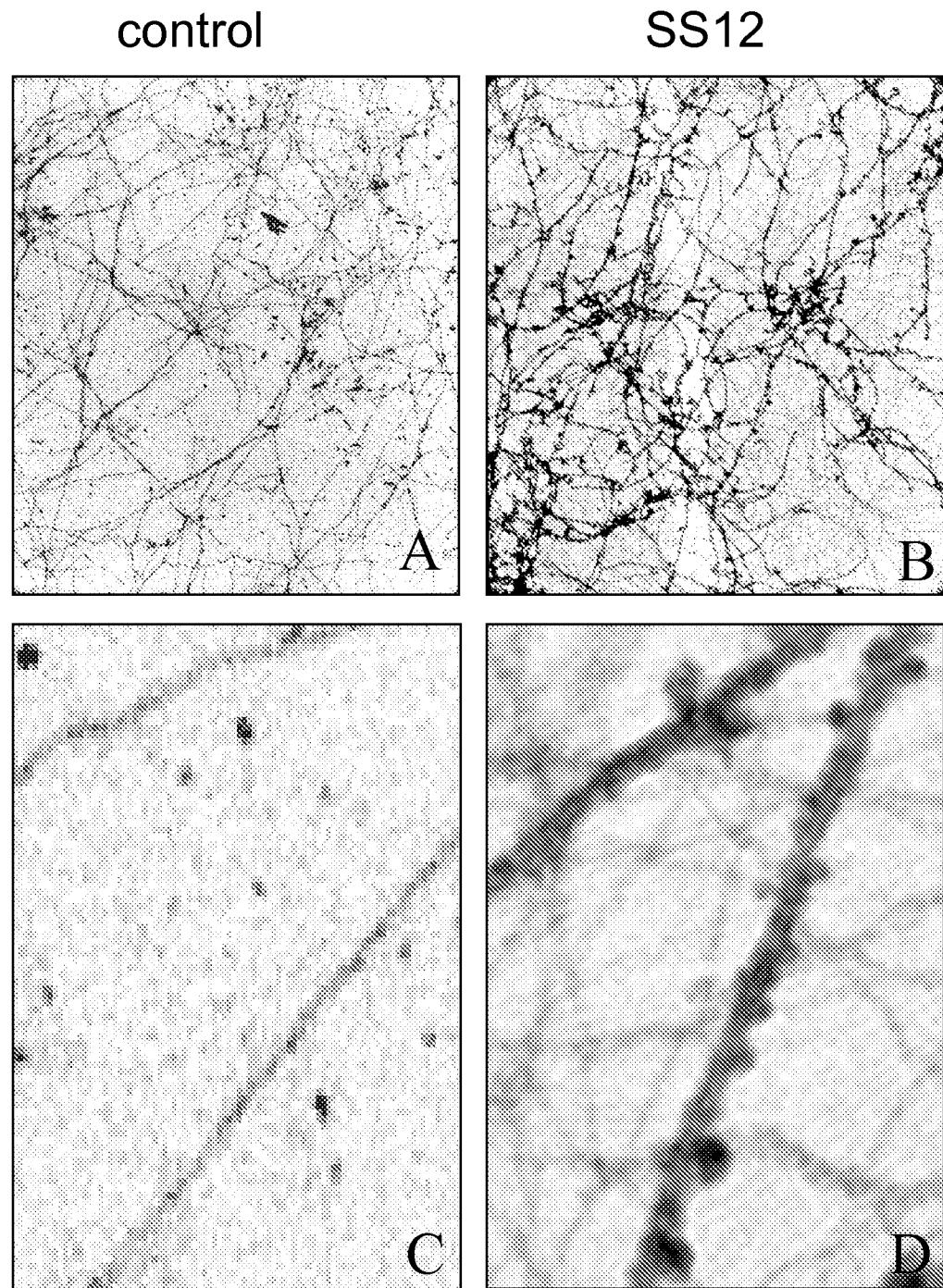


Fig. 6A

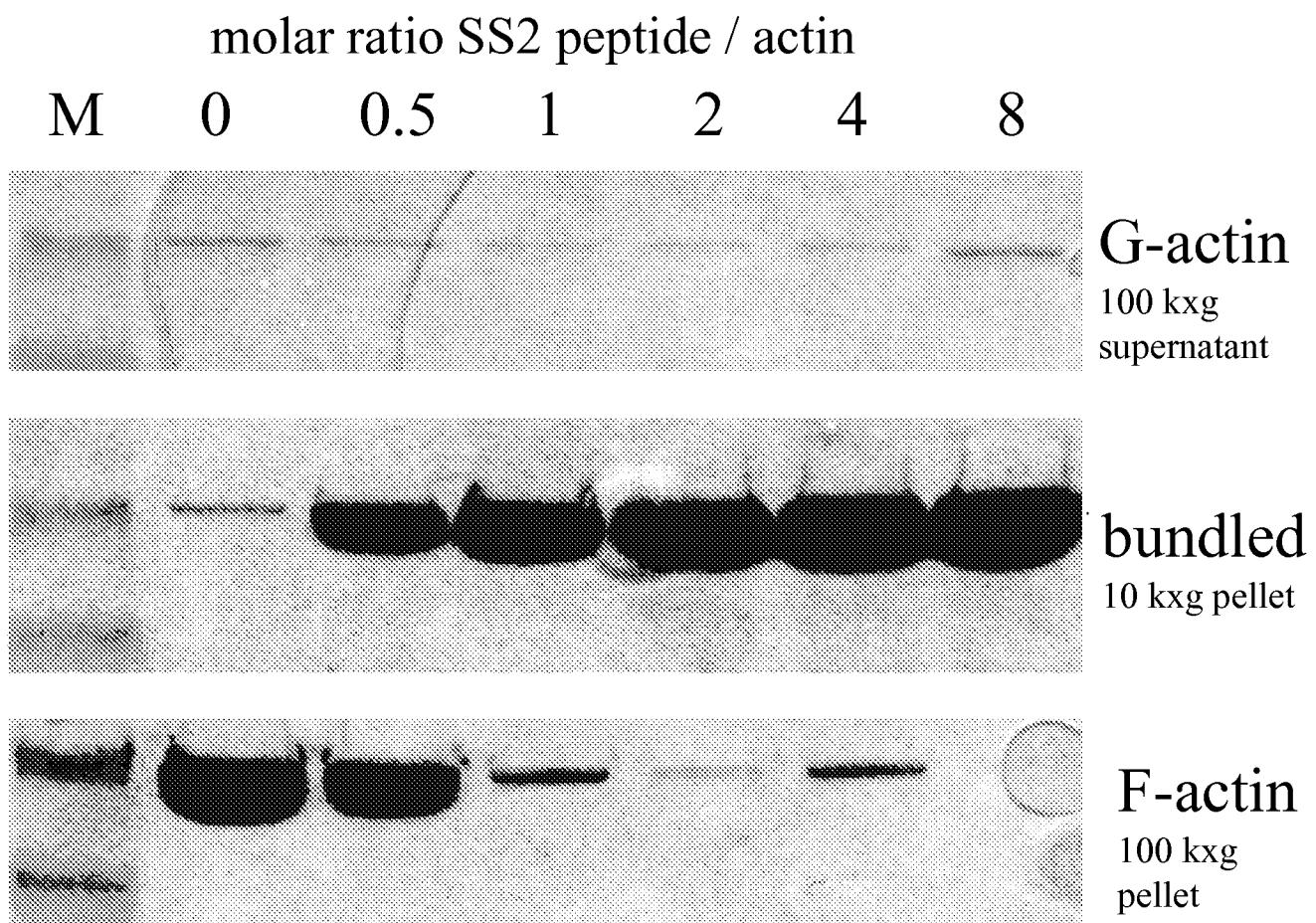


Fig. 6B

Effect of SS2 on polymerized
F-actin in vitro

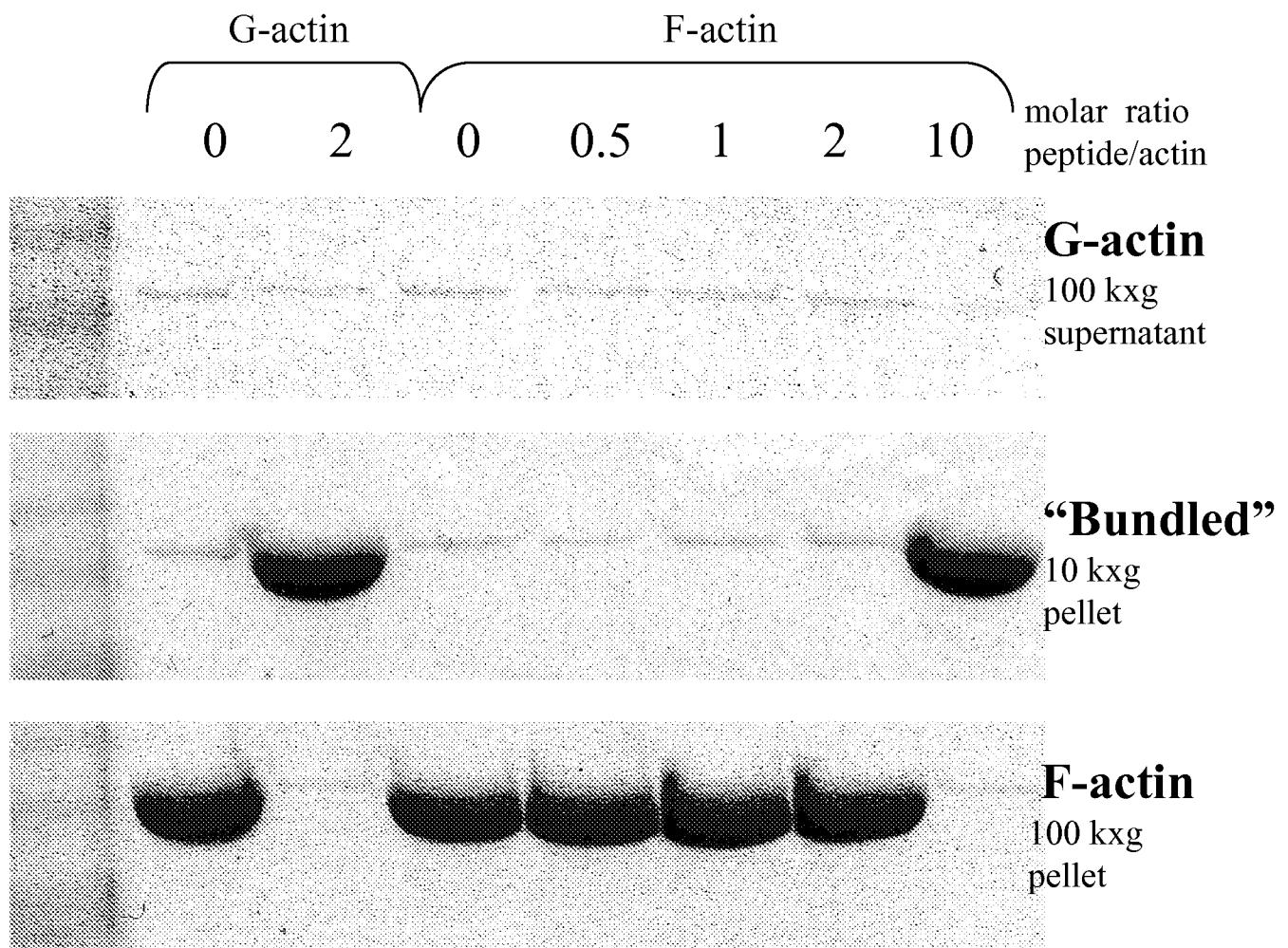


Fig. 6C

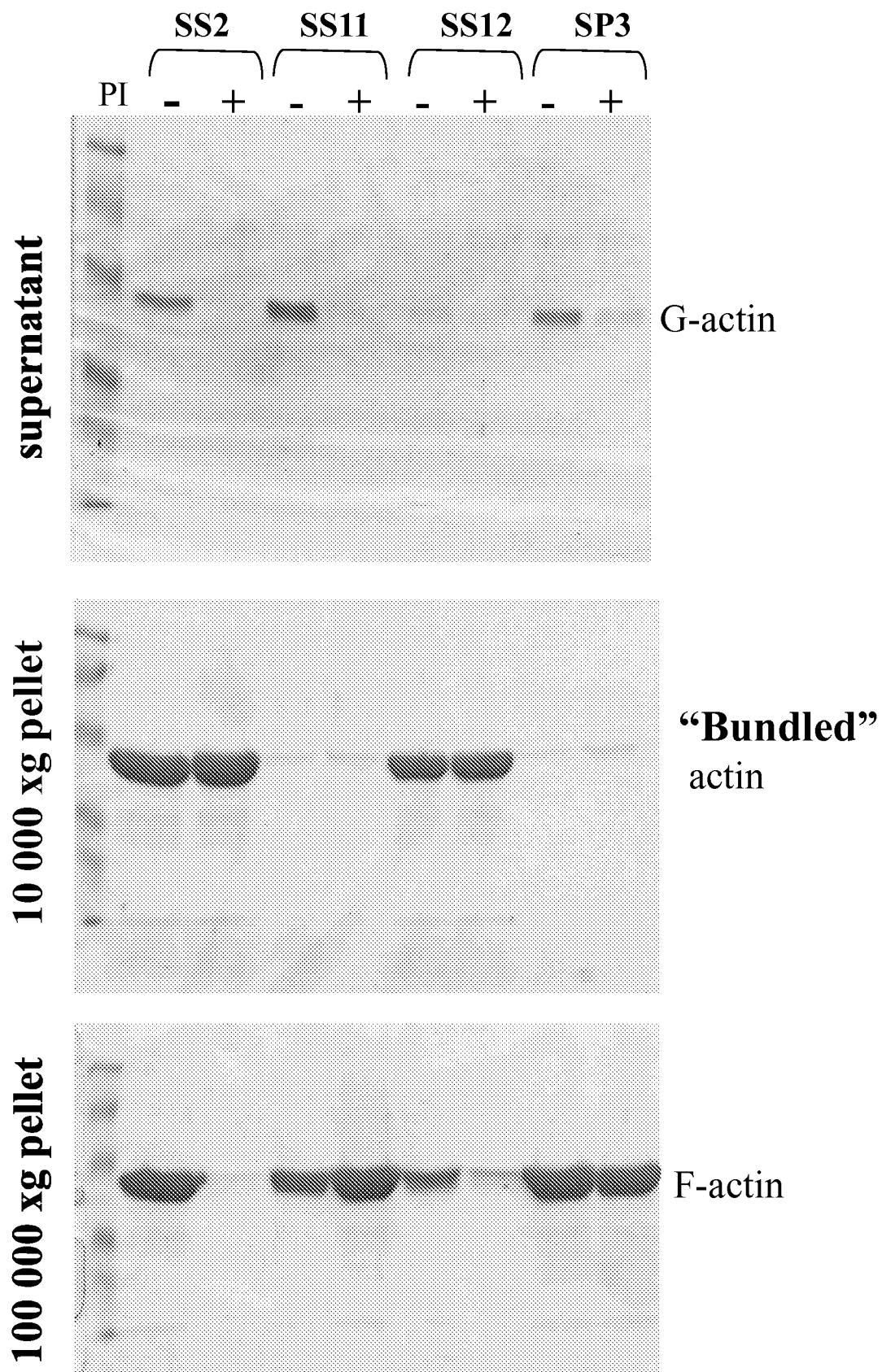


Fig. 6D

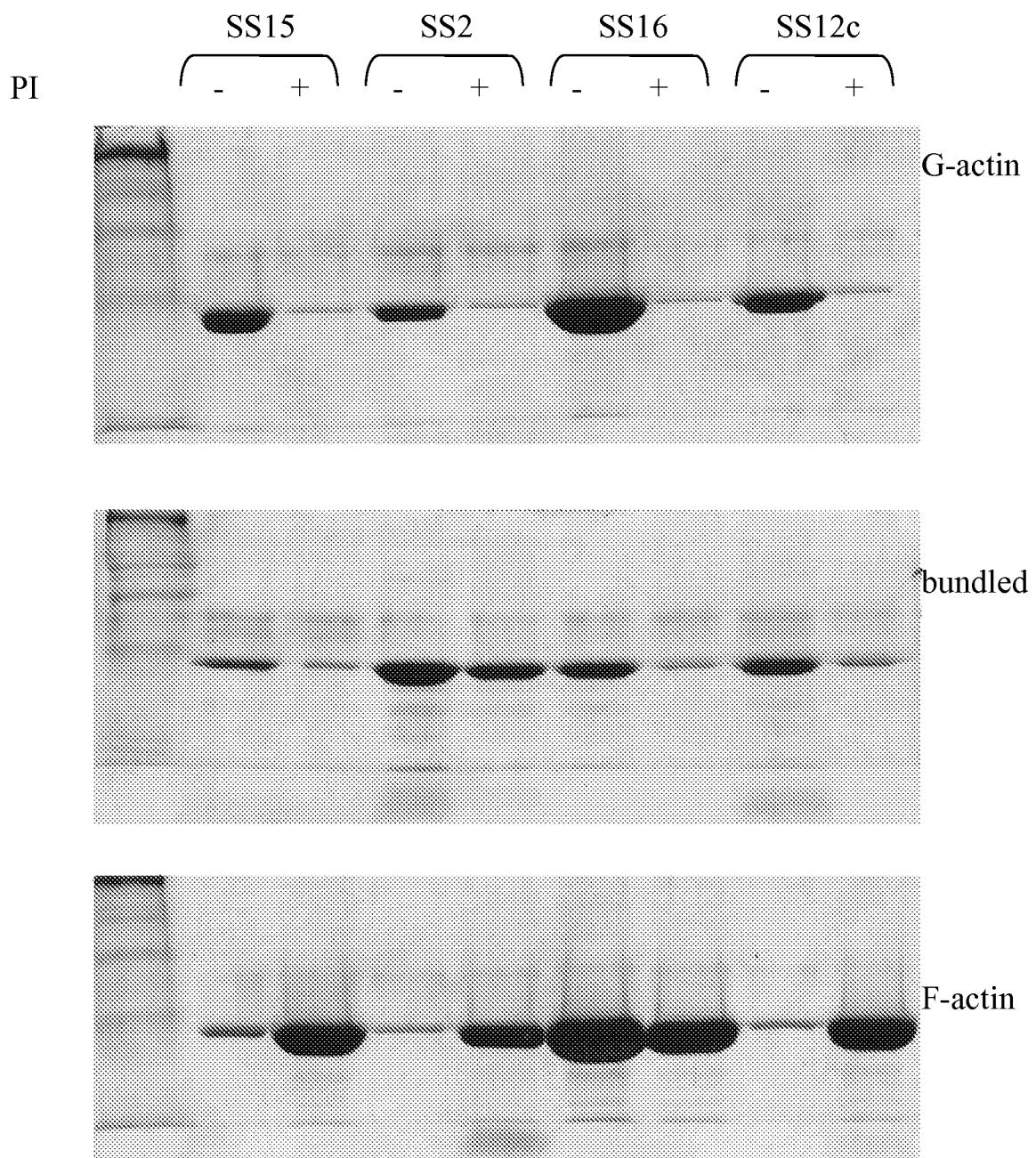


Fig. 6E

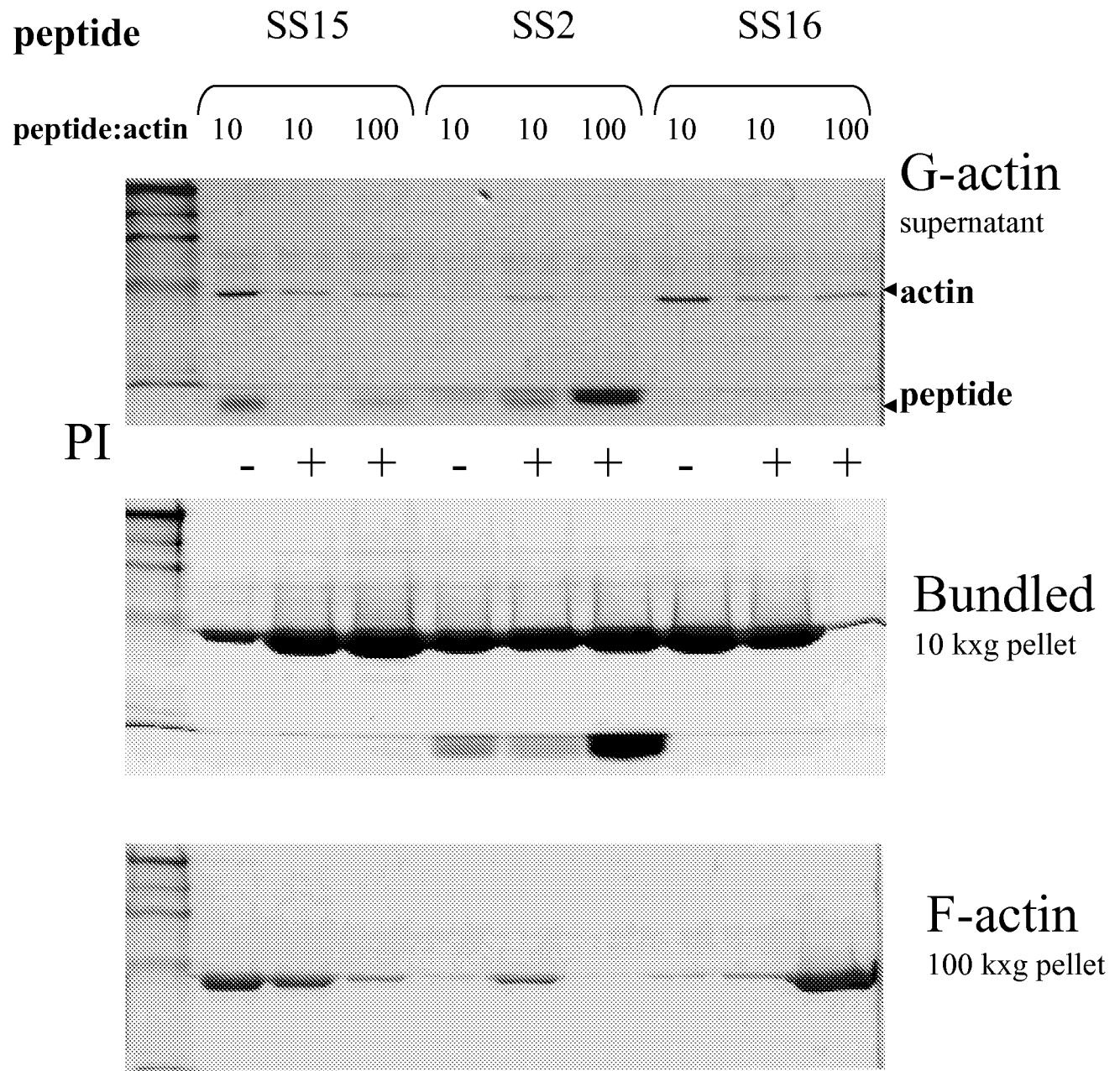


Fig. 6F

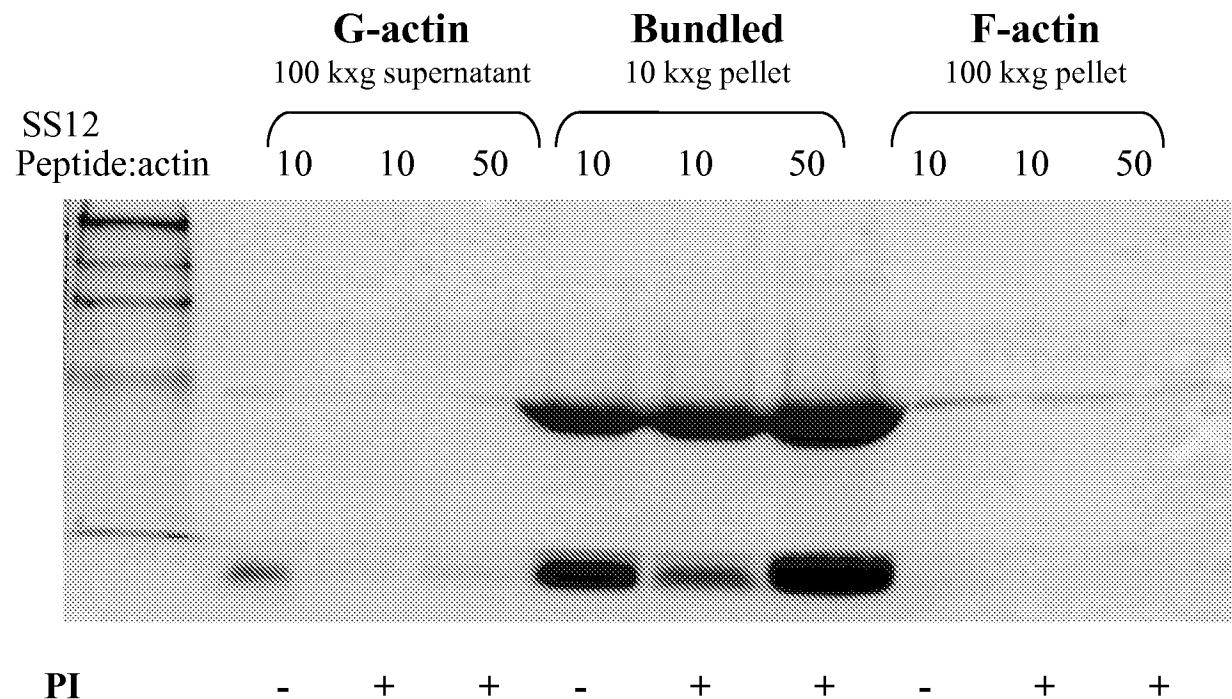


Fig. 7

SS2 bundling activity is not affected by phalloidin

